In re Appln of NESPER et al Appln. No. 10/544,211 Reply dated January 7, 2010 Reply to Office Action of July 8, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original) A process for producing a B/N/C/Si ceramic from a borazine precursor, characterized in that the borazine precursor is B-tris(hydrosilylvinyl)borazine and this is converted into ceramic by pyrolysis.
- 2. (Original) The process as claimed in claim 1, characterized in that the B-tris(hydrosilylvinyl)borazine is prepared by hydrogenation of B-tris(trichlorosilylvinyl)borazine.
- 3. (Original) The process as claimed in claim 2, characterized in that the B-tris(trichlorosilylvinyl)borazine is prepared from B-triethynylborazine by hydrosilylation.

Claim 4 (Cancelled).

5. (Previously Presented) The process as claimed in claim 1, characterized in that the B-tris(hydrosilylvinyl) - borazine is applied to a substrate in liquid form and is subsequently pyrolyzed.

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- 6. (Original) The process as claimed in claim 5, characterized in that B-tris(hydrosilylvinyl)borazine is dissolved in a solvent and is made thixotropic.
- 7. (Previously Presented) The process as claimed in claim 5, characterized in that B-tris (hydrosilylvinyl) borazine or a solution thereof is applied to said substrate by painting or spraying and is subsequently pyrolyzed.
- 8. (Previously Presented) The process as claimed in claim 1, characterized in that the B-tris(hydrosilylvinyl)-borazine is, after a prepyrolysis, converted into a high-temperature ceramic at a higher temperature in the range from 1000°C to 2000°C, optionally 1100-1300°C.
- 9. (Previously Presented) The process as claimed in claim 1, characterized in that the precursor is doped with a metal or a metal compound to produce a doped ceramic.
- 10. (Previously Presented) The process as claimed in claim 1, characterized in that the molecules of the borazine precursor are one-dimensionally or two-dimensionally crosslinked prior to the pyrolysis.

- 11. (Withdrawn-Currently Amended) The process as claimed in claim 1, characterized in that the precursor is B-tris((phenyldihydrosilyl)vinyl)borazine, B-
- tris((methyldihydrosilyl)vinyl)borazine or an amine thereof.
- 12. (Withdrawn) A ceramic produced as claimed in claim 1, characterized in that it is substantially pore-free.
- 13. (Withdrawn) The ceramic as claimed in claim 12, characterized in that it is a substantially oxygen-free high-temperature ceramic.
- 14. (Withdrawn) The ceramic as claimed in claim 12, characterized in that it is a semiconductor.
- 15. (Withdrawn) The ceramic as claimed in claim 12, characterized in that it has been doped with metal.
- 16. (Withdrawn) In a method of producing a heating element, comprising forming at least a part of said heating element of ceramic, the improvement wherein said ceramic comprises the ceramic produced according to claim 1.
- 17. (Previously Presented) The process of claim 1 wherein said ceramic is formed as a coating.

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- 18. (Previously Presented) The process as claimed in claim 17, characterized in that the coating is antistatic.
- 19. (Previously Presented) The process as claimed in claim 17, characterized in that the coating is an interior coating, optionally of a pipe.
- 20. (Withdrawn) In a method of producing a semiconductor, comprising forming at least a part of said semiconductor of a ceramic, the improvement wherein said ceramic comprises the ceramic produced according to claim 1.
- 21. (Withdrawn) In a method of a medical implant, comprising forming at least a part of said medical implant of a ceramic, the improvement wherein said ceramic comprises the ceramic produced according to claim 1.
- 22. (Withdrawn) The method as claimed in claim 21, characterized in that the ceramic has been doped with metal.